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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/955,968	09/20/2001	Stefan Wager	027566-019	1914

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EXAMINER

RAMAKRISHNAIAH, MELUR

ART UNIT PAPER NUMBER

2643

DATE MAILED: 09/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/955,968

Applicant(s)

WAGER, STEFAN

Examiner

Melur Ramakrishnaiah

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 September 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 5-24 is/are rejected.
- 7) ☐ Claim(s) 4 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 6.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-2, 5-6, 8-9, 11, 13, 14, 16, are rejected under 35 U.S.C 102(e) as being anticipated by Van Lieshout et al. (US2001/0036823 A1, filed 3-9-2001, Provisional Application No. 60/190,097, filed on Mar. 20, 2000, hereinafter Van Lieshout).

Regarding claim 1, Van Lieshout discloses a method of processing received data at a user equipment connected to a communications network, the method comprising: receiving radio frames in a receiver of the user equipment, identifying a Transport Format Combination Indicator of the radio frame in the user equipment, and determining whether the received radio frame includes transport blocks that are not directed to the user equipment (paragraphs: 0025 to 0033).

Regarding claim 14, Van Lieshout further discloses a user equipment comprising: means for receiving radio frames, means for identifying a Transport Format Combination Indicator of the radio frame, and means for determining

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whether the received radio frame includes transport blocks that are not directed to the user equipment (paragraphs: 0025 to 0033).

Regarding claims 2, 5-6, 8-9, 11,13, 16, Van Lieshout further teaches the following: identifying which transport channels include transport blocks in the received radio frame, determining which of these transport blocks that are not directed to the user equipment, the method further comprises, in case the received radio frame include transport blocks that are not directed user equipment, the user equipment not further processing the transport blocks that are not directed to the user equipment, in case received transport blocks may be directed to the user equipment, the user equipment further processing the received transport blocks, transport blocks processing comprises: rate matching (implicit in order to decode received signals), error control decoding, processing the data in a medium access control layer, user equipment further comprises processing means for processing transport blocks (paragraphs: 0025 to 0033).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 7,10, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Lieshout in view of Fujiwara et al. (EP 0854581 A2, hereinafter Fujiwara).

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Regarding claims 7,10, and 17, Van Lieshout does not teach the following:
transport blocks processing comprises: deinterleaving, calculating cyclic
redundancy code checksum.

However, Fujiwara discloses coding and decoding system using crc check
bit which teaches the following: transport blocks processing comprises:
deinterleaving, calculating cyclic redundancy code checksum (see abstract).

Thus, it would have been obvious to one of ordinary skill in the art at the
time invention was made to modify Van Lieshout's system to provide for the
following: deinterleaving, calculating cyclic redundancy code checksum as this
arrangement would facilitate to combat data transmission errors, thus facilitating
data reception satisfactorily.

5. Claims 12 and 18, are rejected under 35 U.S.C. 103(a) as being
unpatentable over Van Lieshout in view of Huang et al. (EP 0980149 A2,
hereinafter Huang).

Regarding claims 12 and 18, Van Lieshout does not teach the following:
the receiver is a rake receiver.

However, Huang discloses an AFT-based CDMA rake receiver system
and method which teaches the following: the receiver is a rake receiver (fig. 1,
col. 4 lines 16-36).

Thus, it would have been obvious to one of ordinary skill in the art at the
time invention was made to modify Van Lieshout's system to provide for the
following: the receiver is a rake receiver as this arrangement would facilitate

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signal processing of received signals to combat fading of signals in a wireless transmission.

6. Claims 3, 15, 19-20, 22, 23, are rejected under 35 U.S.C. 103(a) as being unpatentable over Morisono (JP403076449A) in view of Diepstraten (EP 0597640 A1).

Regarding claims 3 and 15, Morisono discloses a method of processing received data at a user equipment communication network, the method comprising: receiving frames in a receiver of the user equipment, identifying transport block sizes of the frame in the user equipment (implicit as the receiving equipment has to process received data), and determining whether the received frame includes transport blocks that are not directed to the user equipment (fig. 1, see abstract).

Regarding claims 19-20, 23, Morisono further teaches the following: in case received frames includes transport blocks that are not directed to the user equipment, the user equipment not further processing the transport blocks that are not directed to user equipment, in case received transport blocks may be directed to the user equipment, the user equipment processing the received transport blocks (note: this is implied in as much the only terminal equipment with data frame directed to its own address process the data and other terminal equipment do not process data frame, fig. 1, see abstract), user equipment further comprises processing means for further processing the transport blocks (fig. 1, see abstract).

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Morisono differs from claimed invention in that in that he does not teach processing radio frames and user equipment is mobile station.

However, Diepstraten discloses wireless local area network system which teaches processing radio frames and user equipment is mobile station (fig. 1, see abstract).

Thus, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify Morisono's system to provide for processing radio frames and user equipment is mobile station as this arrangement would facilitate data transmission under wireless conditions as taught by Diepstraten, thus facilitating versatility.

7. Claims 21 and 24, are rejected under 35 U.S.C. 103(a) as being unpatentable over Morisono in view of Diepstraten as applied to claims 3 and 15 above, and further in view of Huang.

Regarding claims 21 and 24, the combination does not teach the following: receiver is a rake receiver.

However, Huang discloses an AFT-based CDMA rake receiver system and method which teaches the following: the receiver is a rake receiver (fig. 1, col. 4 lines 16-36).

Thus, it would have been obvious to one of ordinary skill in the art at the time invention was made to modify the combination to provide for the following: the receiver is a rake receiver as this arrangement would facilitate signal processing of received signals to combat fading of signals in a wireless transmission.

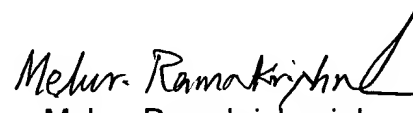
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8. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melur Ramakrishnaiah whose telephone number is (703) 305-1461. The examiner can normally be reached on M-F 6:30-4:00; every other F Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Curtis Kuntz can be reached on (703)305-4708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Melur Ramakrishnaiah
Primary Examiner
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